

# plus deck 2c

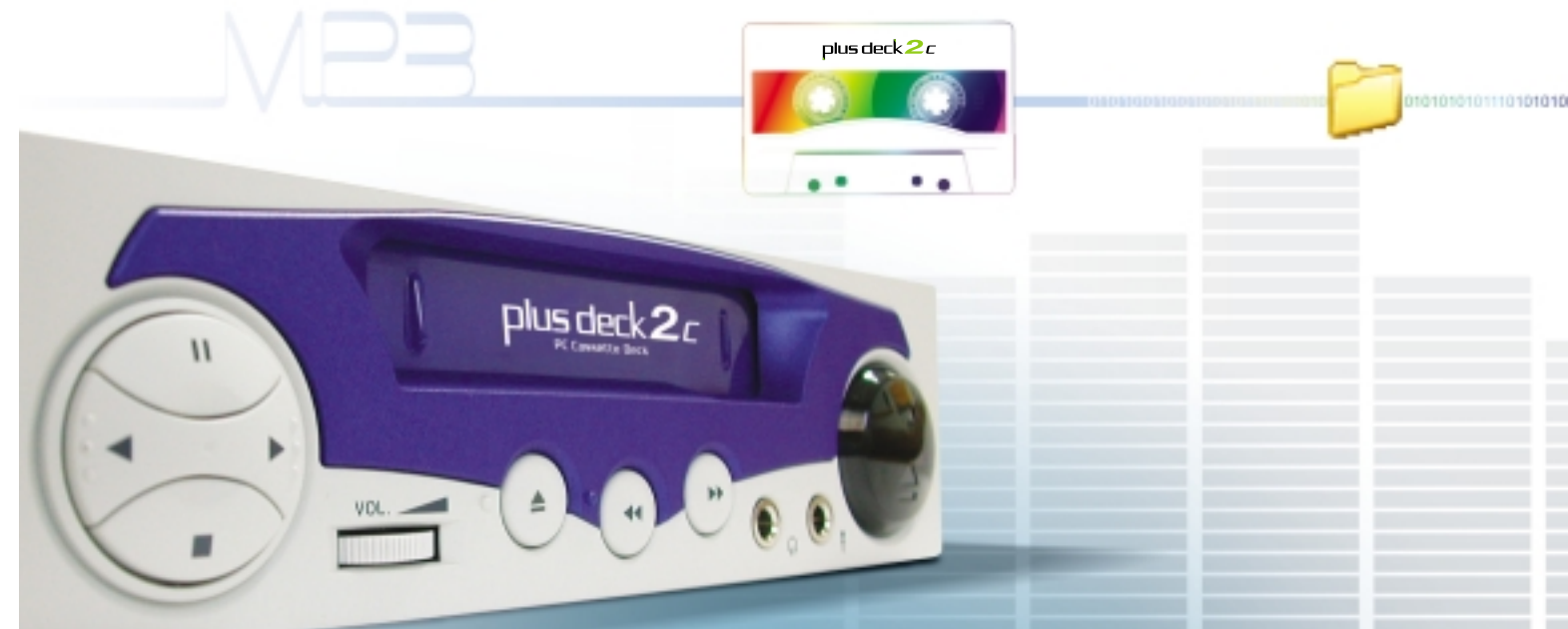
PC Cassette Deck



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PC Cassette Deck

Manual for Use and Installation (a warranty card enclosed)





**plus deck 2c**  
PC Cassette Deck

## User manual (a warranty card enclosed) Version. 3.50

Thank you for using Plusdeck2c

This manual includes the installation process, Plusdeck2c operation, and troubleshooting. In the back of the manual included is the registration card.

- The contents of this manual can be changed without prior notice due to any change in the product.
- Printed images may differ from the actual images.
- Copying or distribution of the contents of this material without our written permission is forbidden.

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**plus deck 2c**  
PC Cassette Deck

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## Before Installation

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**Note:** Throughout this manual, the names PC and computer are used interchangeably.

1



## ① About Plusdeck2c

- It uses normal type cassette tapes.
- It is a cassette deck for PC.
- It has software controlled full logic mechanism.
- It is assembled with a high quality Japanese deck and audio mechanism to deliver CD quality sound.
- It has auto-reverse function.

■ The followings are possible with the Plusdeck2c.

- Play the tape: Listen to the cassette tape on your PC.
- Convert the tape: Sounds in cassette tapes can be converted to the digital files on PC as wav or mp3 format.
- Save Streaming audio into files on PC



## ② Product Information

Patent issue 0390012/International patent PCT/KR01/1567

Registration of design 30-2001-0034551

Registration of program 2001-01-23-4046

Best prize of the second Digital Innovation/Success Design of KIDP (Korea Institute of Design Promotion, 2002)/Procurement Success Designed Special Product chosen by Supply Administration/Best New Product chosen by Hankook Ilbo/Hit Product chosen by Electronic Newspaper/Hit Product chosen by Computer Times/Emerging SuccessTechnique Award chosen by the Seoul Economy, etc..

## ③ Requirements for Plusdeck2c installation

- 5.25" bay 1EA
- Expansion slot 1EA
- Soundcard(analog Line In)
- Minimum 10M of hard drive space for the software installation
- Windows 95/98/ME/2000/XP(Windows is the trademark of Microsoft)

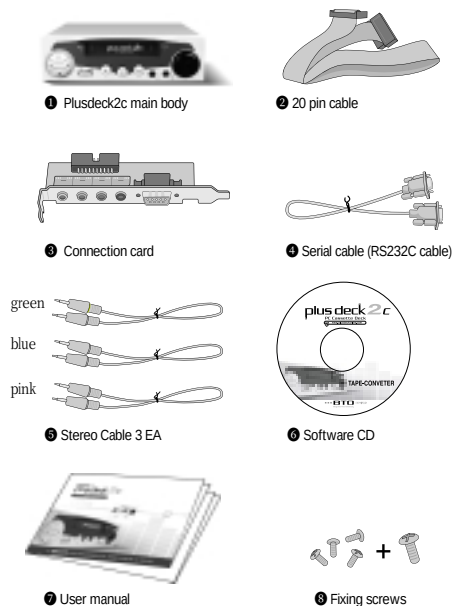
#### 4 Plusdeck2c components

Check all following components are in the box. If you find any component missing or damaged, contact the distributor or manufacturer.

- |                         |                               |
|-------------------------|-------------------------------|
| 1. Plusdeck2c main body | 2. 20 pin cable               |
| 3. Connection card      | 4. Serial cable(RS232C cable) |
| 5. Stereo cable 3 EA    | 6. Installation CD            |
| 7. User manual          | 8. Fixing screws              |

■ A crossed screwdriver is needed to install the Plusdeck2c.

■ If you move it to a different computer, all other components should follow it.



FCC ID : R4EPlusdeck2c-1



E-H900-01-5845(B)

#### 5 Plusdeck2c Specification

- Size (W×H×D): 145×40×215mm
- Tape speed: 4.75Cm/sec
- Wow & Flutter: 0.09%(WRMS)
- Frequency response: 20 ~ 18,000Hz
- Separation: 40dB
- Signal to Noise Ratio : 55dB
- Power: DC12V

#### 6 Electromagnetic Wave Compliances

##### FCC Information

This is device complies with Part 15 of the FCC Results. Operation is subject to the Following two conditions:

- (1) This Device may not cause harmful interface, and
- (2) This Device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radiocommunications. However, there is no guarantee that interference will not occur in a

particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- 1.1.Reorient or relocate the receiving antenna.
- 1.2.Increase the separation between the equipment and receiver.
- 1.3.Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
- 1.4.Consult the dealer or experienced radio/TV technician for help.

##### WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

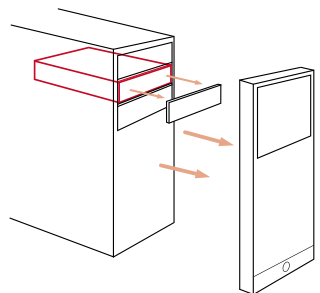
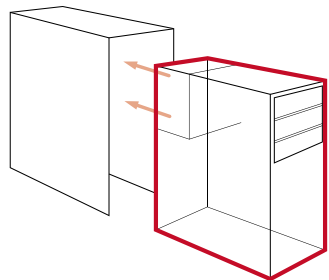
## ⑦ Suggestions when installing and using Plusdeck2c.

- Make sure that the power is off during the installation.
- A caution should be given with the sharp edges inside the PC
- Do not leave other materials or do not touch other parts inside the PC.
- Avoid a direct exposure to the sun or moisture when installing.
- Mechanical or chemical damage should be avoided.
- Keep screws or other small components out of children's reach.
- Do not use bent or damaged tapes.
- Do not move the product while in operation.
- A great care must be given when using important tapes.
- Avoid inserting the finger or materials other than tapes.
- Do not disassemble, modify, fix the product by an unauthorized personnel.

## Installing Plusdeck2c

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| 6 Closing PC case .....                       | 14 |





### ① Make room for installation



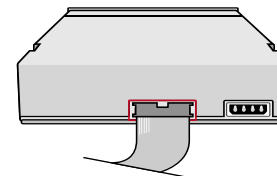
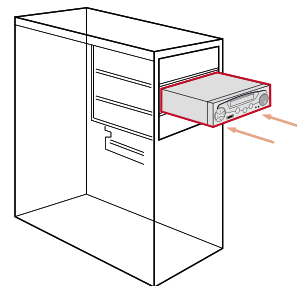
#### Caution

- Turn the power of PC off before installing.
- It can cause an electrical shock if it is installed with the power switch on.

1. Open the PC case.
2. Caution should be given with sharp edges inside PC.
3. Locate an empty 5.25 inch bay where Plusdeck2c is installed.

#### Note

- How to open the case differs from manufacturer to manufacturer.
- If you are having a difficulty, read the user's guide or contact the PC manufacturer.

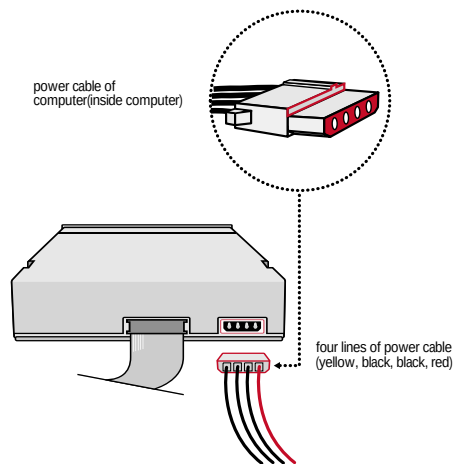


### ② Inserting Plusdeck2c

1. Fully insert the Plusdeck2c into an empty 5.25" bay.
2. Make sure that the back of the Plusdeck2c does not touch other PC components.
3. For some PC models, you may need a side bracket to hold the Plusdeck2c. (A side bracket is sold separately.)

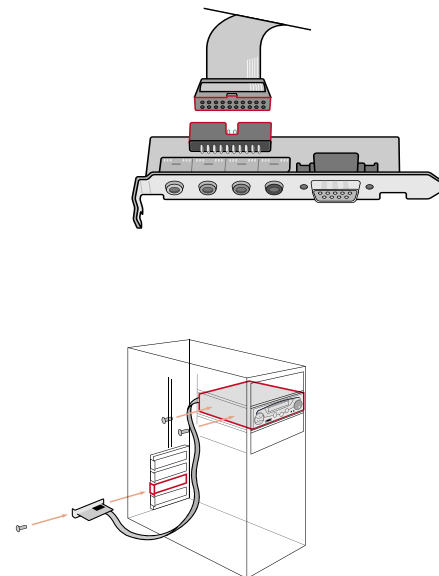
### ③ Connecting 20 pin cable

1. Connect one end of the 20 pin cable to the Plusdeck2c and the other end to the connection card. Connecting 20 pin cable may well be done after step 5.
2. The 20 pin cable is connected between the Plusdeck2c and connection card. Notice that there is a notch in the middle of the connector which prevents you from connecting the cable upside down.



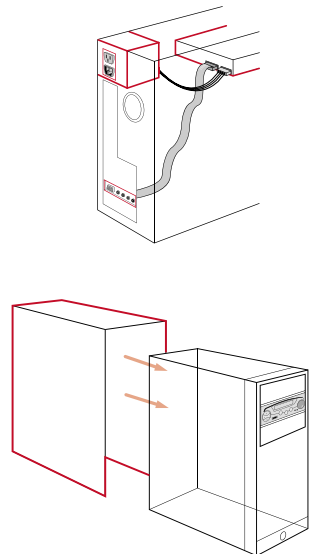
## ④ Connecting Power Cable

1. The internal power cable is shown in the picture on the left.
2. A 4 pin power cable supplies 5V and 12V.
3. Before connecting the power cable, check the power cable direction as shown in the picture.
4. The rounded edge of the power cable must face downward when inserted.
5. An extra caution should be used as the power cable connection of the Plusdeck2c can be different from that of CD or DVD drive.
6. If the power cable is connected wrong, it could damage the unit.
7. If there is no available power cable, a Y adapter power cable can be used for extension.



## ⑤ Fixing Connection Card and Plusdeck2c

1. Fix the connection card at an empty slot of PC with a screw.
2. It can be installed in any empty slot as it does not connect to a PCI bus or controller.
3. Fix the Plusdeck2c main body with screws as shown in the picture on the left.
4. In order to reduce noise or other related problems, fix all PC components firmly.
5. It is recommended that you use the screws that come with the product to fix the product well.



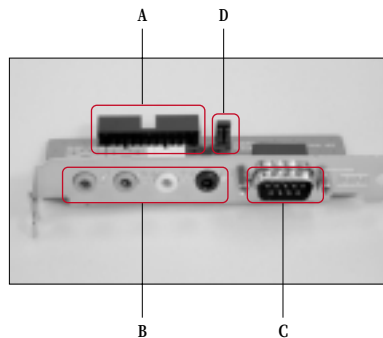
## ⑥ Closing PC case

1. A completed cable connection inside PC is shown in the figure on the left side.
2. Close the PC case to finish the installation.

## Connecting Plusdeck2c

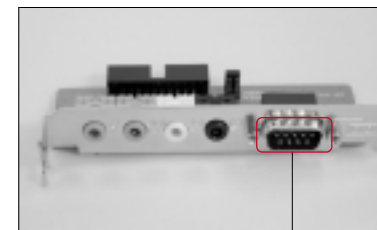
1. About the connection card ..... 16
2. Connect serial cable ..... 17
3. Connect to the sound card ..... 18
  1. Standard connection ..... 18
  2. Advanced connection ..... 19
  3. Microphone connection ..... 20





## ① About Connection card

1. The connection card can be installed in any slot of the PC as it does not connect to a PCI interface. It lets the Plusdeck2c communicate with the PC(serial port and sound card).
2. Its main components as shown on the left side consist of
  - A. 20 pin cable connector
  - B. audio input/output ports
  - C. serial port
  - D. Jumper (default value – open)
3. The jumper D is the switch to ground the Plusdeck2c circuitry. The default value is open position. Changing it to short position could improve the sound quality.
4. The tape sound from the Plusdeck2c flows out of the blue jack of the connection card and flows into the PC.



The same port can be found in the back of the PC.

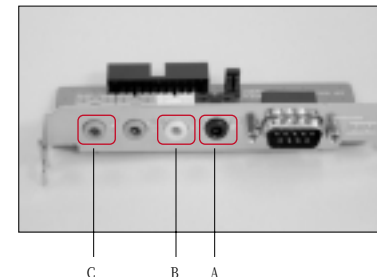
## ② Connecting Serial Cable

1. Connect the serial cable between the serial ports of the connection card and PC.
2. “ Hardware Connect error ” message appears if the serial cable is not properly connected and the software will not work.
3. The PC serial port is usually located near the printer port below the mouse and key board port.
4. The 15 pin port in the sound card is a MIDI port not a serial port.
5. The serial cable included in the product uses 1:1 direct communication. The crossly connected serial cable will not work with the Plusdeck2c.
6. In case the serial port in the PC is out of order or not available, install a PCI RS232 expansion card to make a serial port.
7. The USB/serial connector will not work as it does not allow two way communication.

### ③ Connecting to Soundcard

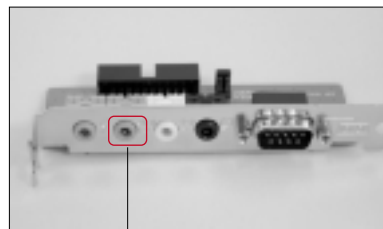
#### 1. Standard Connection

- ① Connect the blue jack of the connectin card to the blue jack of the sound card with the blue stereo cable. If the sound card jacks do not have color distinction, find the jack with "inward arrow" icon.
- ② If "Line In" of the soundcard can not be located, contact the sound card manufacturer for more information.
- ③ The tape sound flows out of the blue jack of the connection card and flows into the blue jack of the sound card. Then the sound card delivers this sound to the speaker or store it on the PC
- ④ Using with the TV capture car  
The TV capture card works like the Plusdeck2c by sending the analog sound to Line In jack of the sound card. Since two cables need to be connected to one input jack, a Y jack can be used. But with a Y jack, one of the input sound levels could be reduced due to an impedance difference. If this happens, use an audio splitter instead.



#### 2. Advanced connection

- ① The advanced connection is useful when a headphone set is used. The headphone sound volume can be adjusted by the volume control located in the front panel of the Plusdeck2c. Since the headphone is a two channel system, output sounds from rear and center speakers can still be heard if you are using a multichannel system.
- ② Connection to use a headphone set
  - A. Move the speaker cable connected to the green jack(Line Out)of the sound card to the black jack of the connection card. (If a multi channel speaker setup is used, other speaker cables except the one to the green jack of the sound card should remain where they are.)
  - B. Connect the green jack of the connection card to the green jack of the sound card with the green stereo cable.
  - C. Sound flow -Before advanced connection : green jack(Line Out) of the sound card → speaker  
After Advanced connection : green jack(Line Out) of the sound card → green jack of the connection card → headphone in the front panel(or black jack of the connection card → speaker)



• Tape sound out jack  
• This is connected to Line In of the sound card.

### 3. Connecting to Soundcard

- ① Connect the pink jack(D) of the connection card to the pink jack of the soundcard with the pink stereo cable.



#### Caution

- If the advanced connection is not done, no sound will be heard through the headphone jack.
- The tape playing sound will be heard from the front panel jack only when the advanced connection is done.
- Make sure that the headphone volume control is not in the minimum position.



#### Check

Now all cable connections are completed.  
Follow the steps in Section 4 to test the installation.

## Getting Started

|                                       |    |
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### Getting started with the Plusdeck2c

After the installation and cable connection is finished, this section lets you test the setup and helps familiarize yourself with the Plusdeck2c operation.

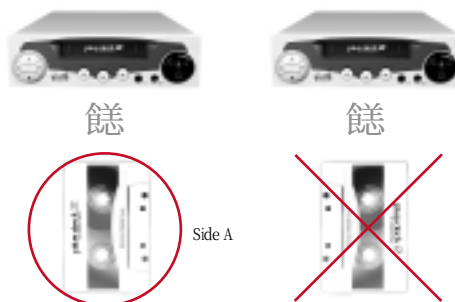
## ① Starting the PC

Start PC after you plug the power switch on.



### Problem/Solution - PC won't start

- Check if the power cable is connected properly or power switch is on.
- There are too many devices connected or power supply is not sufficient.  
Upgrade the power supply or remove devices no longer in use
- Check if other PC parts are properly connected or get loosened.



## ② Checking the power supply to the Plusdeck2c

The tape should be inserted as shown in the picture on the left. When the power is normally supplied to the Plusdeck2c, the tape should be inserted without excessive force and ejected by itself with the eject button.

- If you push the tape by 2~3 cm, it will be inserted by itself.
- Do not insert the tape by force. If the tape is not inserted automatically, most likely the power is not supplied. See the next page.
- Plusdeck2c assumes the top side of the inserted tape as A side.
- When the tape is inside Plusdeck2c, the swinging door in the front face may look open.



### Problem/Solution

When the power is not supplied or the power cable is not properly connected, the Plusdeck2c will not operate. Check these

1. The power supply cable to the Plusdeck2c is connected upside down
  - the rounded side of the power supply should go downward.
2. The power supply cable is dead
  - connect with a different power supply cable.



### Caution

- If all LED lights are dimmer, the power cable is connected upside down.
- If all LED lights are flashing constantly and the tape can not be inserted or ejected, the tape gets stuck or the Plusdeck2c has a mechanical problem.
- Contact the distributor or manufacturer for service.



PlayBack Button

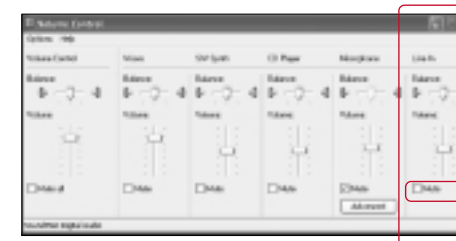
### ③ Checking the tape playback sound

- After the tape is inserted, play the tape by pushing the playback button shown in the picture on the left side.
- If you don't hear the tape sound, check the following problem/solution.



#### Problem / Solution 1

1. Check the standard connection in page 18.
2. To hear the sound from the headphone jack in the front panel, the advanced connection in page 19 must be completed.



#### Problem / Solution 2

1. Check if Line In in the Recording control window is selected.
  - Windows98 : Start > Control Panel > Multimedia > Audio > Click Sound playback
  - Windows XP : Start > Control Panel > Sound and Audio devices > Audio > Click Volume in Sound playback.
 (If line in is not seen in the recording control window, click Option - Properties and select line in and click OK.)
2. If Line In in the volume control is muted, mute must be unchecked. Also increase the Line In level if it is set too low.



#### Problem / Solution 3

If you still not hear the sound after steps 1 and 2 are checked, it is likely that the Line In of the soundcard has been assigned to perform a different function. In order for the sound card with only three jacks(Line In, Line Out, Mic) to support a multichannel speaker setup, Line In and Mic jack are used as Line Out. To fix this problem, you need to select desktop stereo speaker(2 channel) setup instead of multichannel speaker setup.

## ④ Installing Software

### 1. Methods of installation

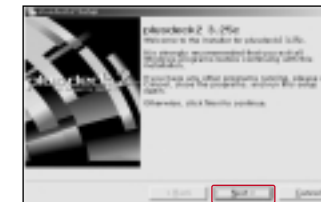
#### 1) Install over the internet

- ① Go to <http://www.plusdeck.com>
- ② Search for the latest version at DOWNLOAD menu
- ③ Download the software

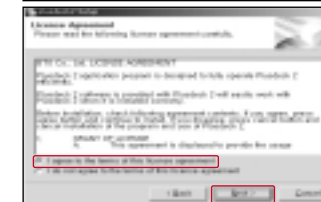
#### 2) Install from a CD

- ① Insert the Plusdeck2c installation CD in the CD-ROM drive
- ② If the setup program is not started automatically, double click setup.exe in the disc.

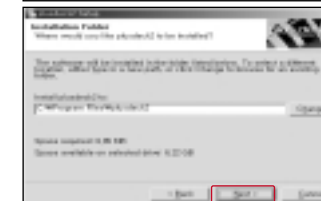
### 2. Start Installing



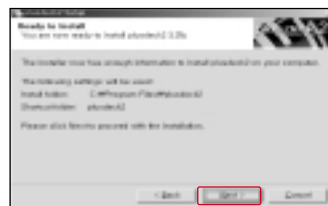
Click Next



If you agree to the terms of the licence, click Next to continue the installation.



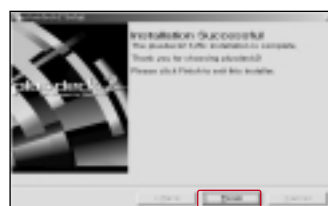
Specify a folder where Plusdeck2c is Installed.



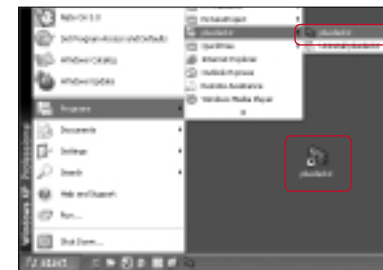
Click Next



The installation is in progress.



Click Stop to finish the installation.



Close program

## 5 Running the software

- ① The software can be started by either double clicking the shortcut icon in the desktop or clicking start > Plusdeck2c
- ② When the software has started, the interface as shown on the left appears.
- ③ The software is closed by clicking X on the upper right corner.

Problem / Solution



Software will not run

1. The problem with the serial cable

- ① The serial cable is not properly connected. (See page 17)
- ② The serial cable you are using is not provided by us. (The Plusdeck2c uses 1:1 direct communication. The crossly connected serial cable will not work with the Plusdeck2c.)
- ③ The pin in the serial cable has been bent.

2. The problem with the serial port

- ① The serial port is already in use by other device.
  - Other program (including previously installed program) may be blocking the serial port. This program must be removed.
- ② The serial port is set to disable at the BIOS setup.
  - Change the setting to auto or enable.

3. Others

- ① When there is no power supplied
- ② When multiple Plusdeck2c software's were launched
- ③ When the serial port has gone bad



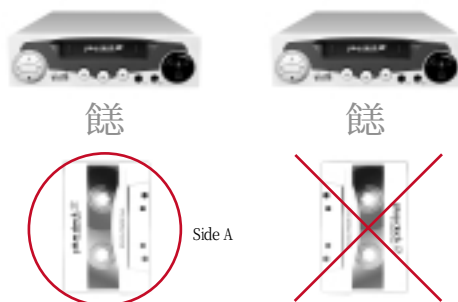
Note

If the serial port is not available or out of order, a PCI RS232 expansion card can be used to make an additional serial port. An unknown serial port problem may go away if you use a PCI RS232 card.

## Using Plusdeck2c

|                                   |    |
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## ① Inserting the tape

1. Insert the tape as shown in the picture on the left.
2. If you push the tape gently, it is inserted by itself.
3. Do not insert the tape by force. It can damage the deck.
4. The Plusdeck2c recognizes the top of the inserted tape as A side.
5. When the tape is inside the deck, the swinging door in the front face may look open.
6. Make sure the tape is well winded before inserting. A loosened tape could get entangled.
7. Foreign materials inserted inside the deck could damage the deck.



### Caution

- When the tape can not be inserted, the possible causes are
  - A. The tape is bent significantly
  - B. The power supply problem - the power cable is connected upside down or the power cable is dead

### Caution



### Do not use the Following Tapes

1. Wet tapes(can cause rust in the deck)
2. Physically bent or damaged tape
3. Tape with loose label or partly detached label



### Caution

- Do not leave the tape inside the deck for long when it is not in use.
- When longer tapes(C-90 or C-120 minutes) are used, a care must be given to prevent any damage as these tapes are thinner than C-60 minute tapes.

## ② Plusdeck2c main body

### 1. Command Buttons

- A : Playback A side
- B : Playback B side
- C : Stop - Stop all Plusdeck2c operation
- D : Pause playing back the tape
- E : Volume Control - adjusting the volume of the headphone jack in the front panel of the deck
- F and K : Eject the tape
- G : Fast forward
- H : Fast rewind



#### Caution

If E is at the minimum position, no sound will be heard from the headphone jack.

I : Headphone jack - You can hear all sounds from PC or tape sound using a headphone set.

J : Microphone jack - You can connect an external microphone to this port. It supports mono and stereo microphone.

L : LED lights - 2 green and 1 red LED lights show the status of the Plusdeck2c operation.



#### Caution

The stereo cable connection described in page 19 must be done properly in order to use the front panel headphone and microphone jack.



### 2. LED indicator

LED lights(1 red, 2 green) show the status of the Plusdeck2c operation.

| LED              | Condition            |
|------------------|----------------------|
| Nothing No tapes | Gray shows flickered |
| ◀ ▶              | Tapes are inside     |
| ▶                | Play side A          |
| ◀                | Play side B          |
| ▶                | Fast forward         |
| ◀                | Fast rewind          |

※ ◀▶ :Flashing arrow



#### Note

All 3 LED lights are flashing constantly when the tape gets stuck or the Plusdeck2c has a mechanical problem.

## ③ Plusdeck2c main body

### 1. Deck control buttons

- Control buttons for playing the tape on the PC

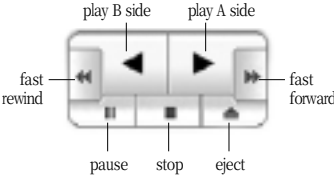
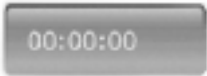


A. Window shows the status of Plusdeck2c operation.

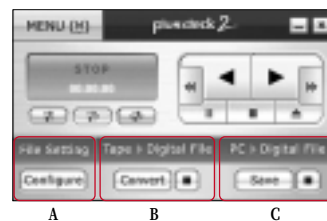
### B. Mode of operation

- ◀ stops at the end of the current side
- ▶ auto-reverse mode
- ▶ continuous playing mode

C. Control buttons – play, fast froward, fast rewind, pause, stop, eject



## 2. Converting and Recording



Digital files are generated using A, B, and C control buttons.

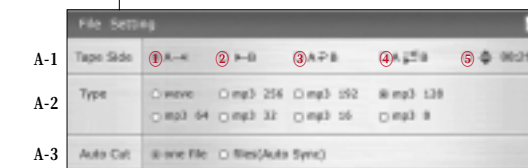
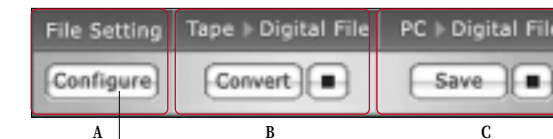
A (Configure) : File setting can be changed.

B (Convert) : Convert the tape into digital files

C (Save) : Record the PC output sound to digital files.

## 1. file setting

Press Configure to open the file setting window.



A-1(Tape Side) option includes ① A side ② B side ③ auto reverse  
④ auto reverse but it splits between A and B side ⑤ the timer



A-1  
A-2  
A-3

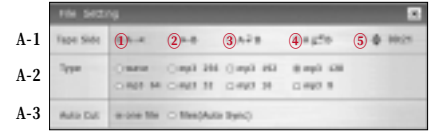
A-2(Type) specifies file format

- ① Wave is a Windows native file format which requires a large storage space
- ② Mp3 is a compressed file format which requires a less storage space. The number following Mp3 indicates bit rate. The higher the number is, the better the sound quality is. Mp3 64 option is recommended for converting voice and mp3 64 or higher for converting music.
- ③ The table below shows the file size comparison table between wave and various mp3 bit rate file format.

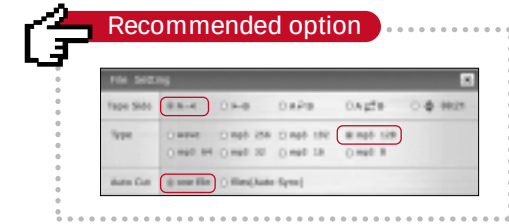
| Sorts of file | Capacity for 1 min | Sorts of file | Capacity for 1 min |
|---------------|--------------------|---------------|--------------------|
| Wave          | 10MB               | Mp3 64        | 0.5MB              |
| Mp3 256       | 2MB                | Mp3 32        | 0.25MB             |
| Mp3 192       | 1.5MB              | Mp3 16        | 0.125MB            |
| Mp3 128       | 1MB                | Mp3 8         | 0.063MB            |

(The number of after mp3 is bitrate. The size of file is approximation.)

**Why converting can be done only in real time**  
High speed recording between different medium can not be done at this point due to the speed error problem.



A-1  
A-2  
A-3

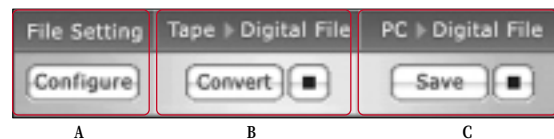


A-3(Auto Cut) One file option generates an entire tape in one file. Files option splits the tracks and creates each track as a separate file. It is not recommended to use Files option for the tape with voice recording because it can create numerous files as it cuts wherever there is no sound.

**Note**  
When using Files option, the number of created files differ from soundcard to soundcard as input level values depend on soundcard. So Line In level in Recording Control window should be adjusted for Files option to improve.

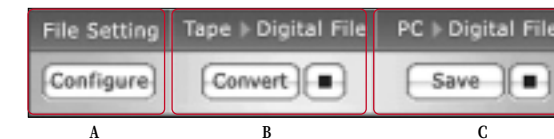
**Note**  
The file setting will not change once it is set.

2. Convert button in B convert the tape to digital files



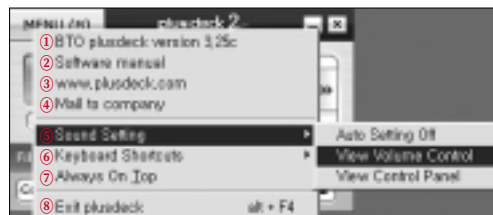
- ① This is the main function of the Plusdeck2c.
- ② Converting can be started when the tape is inside the deck and the deck is not in operation.
- ③ A window which lets you specify a folder and file name appears when convert button is pressed. After you click OK button, the tape plays and converting is started.
- ④ You can manually stop converting by pressing button on the right side. Otherwise, it will stop according to the option selected.

It is recommended that you test a short portion of the tape before converting an entire tape.



3. Save button in C records PC output sound to digital files

- ① All output sounds from the PC, such as, internet radio, CD, DVD, can be recorded to the PC.
- ② A window which lets you specify a folder and file name appears when Save button is pressed. Recording is stopped by pressing ■ button located on the right side.



### 3. Menu list

- ① Shows the version of the current software.
- ② Directs you to the online manual.
- ③ Directs you to the manufacturer's web site.
- ④ Lets you send you an email to the manufacturer.
- ⑤ Lets you to adjust the soundcard setting.
  - A. Auto setting off turns off auto setting
  - B. View volume opens volume cotrol panel
  - C. View Control Panel opens control panel
- ⑥ Lets you operate the Plusdeck2c by the keyboard.
- ⑦ Lets the Plusdeck2c appear above other windows.
- ⑧ Close the program.

## Getting more out of Plusdeck2c

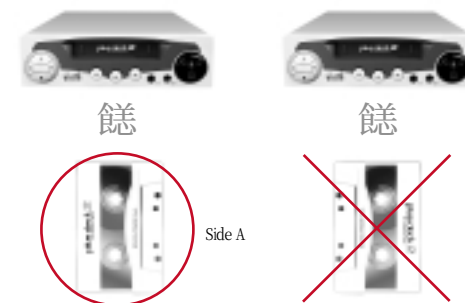
1. Deck operation ..... 49
2. Converting the tape to digital files ..... 50
3. Saving PC output sound as digital files ..... 53
4. Optimizing sound quality ..... 56
5. Editing digital files ..... 61

Note

This section explains step by step

1. how to operate the deck,
2. how to convert the tape into digital files,
3. how to save PC output sound as digital file
4. how to troubleshoot
5. how to optimize sound quality.
6. How to edit digital files

Familiarize yourself with these features by repeating several times.



## ① Operating deck

1. Inset the tape as shown in the picture on the left and start the software.
2. Try fast forward or fast rewind to check the tape condition.
3. The Plusdeck2c assumes the top of the inserted tape as A side.
4. F.F. (▶▶) winds the tape to the end of Side A and REW (◀◀) rewinds to the beginning of Side A.



### Problem/Solution

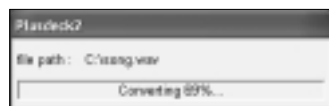
- If the tape is not inserted, see page 24.
- If the tape sound is not heard, see page 26.

## ② Converting the tape to digital files

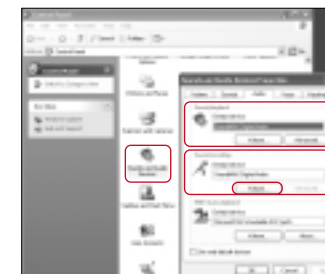
1. Insert the tape to be converted.
2. Start the Plusdeck2c software.
3. Find where you want to start converting in the tape and stop all Plusdeck2c operation.
4. Setting can be changed by clicking Configure button. The setting does not need to be changed each time because the previous setting is stored.
5. Click Convert button under Tape ► Digital File menu
6. Specify a folder and file name when Save As window appears.  
(Special characters such as ?./ can not be used in the name.)
7. If you click Save button, converting is started while the tape is being played.
8. Click ■(Stop) button to finish the process manually or the process will continue until it stops according to the stop option selected.
9. File is stored first as native wave format. If mp3 format is selected, wave file is compressed to mp3 and wave file is removed afterward.
10. If wave format is selected, the process ends without mp3 compression process.  
(If the intended job is to make an audio CD, it is recommended that file be stored as wave format.)



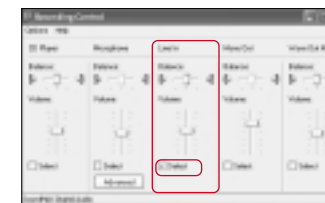
Specify a folder and file name



Compressing wave to mp3



Windows  
XP



### Problem/Solution 1

In case there is no sound in created files, the sound card setting needs to be changed as shown in the picture on the left.

1. Check the sound card setting in the control panel  
Windows98: Start > Control Panel > Multimedia  
WindowsXP: Start > Control Panel > Sounds and Audio devices > Audio tab
2. Sound playback and recording device must use the same device. If Sound recording appears gray, the sound card driver needs to be reinstalled.
3. Click Volume in Sound recording and check if Line In is selected. The Line In volume level should be increased if it is set too low.



### Problem/Solution 2

If the above step does not fix the problem, Line In of the sound card functions as Line Out or it is out of order.

1. In the program which controls the sound card, check if Line In jack is set to Line Out jack.
2. If none of the above fixes the problem, it is likely that Line In of the sound card(Line In) is out order. You should use a different sound card.

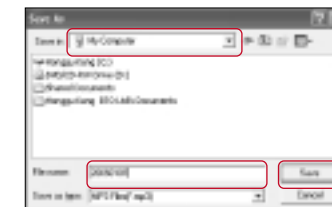


### Note

Even if the sound card driver is not installed, the sound card can output sound. However, the sound card driver must be installed to use Plusdeck2c as it uses other sound card functions also.

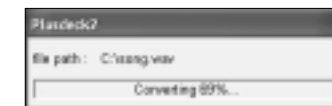


説



Specify a folder and file name

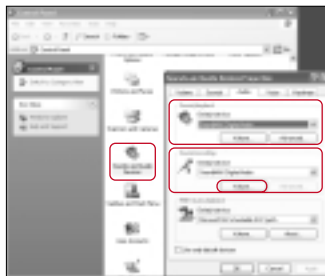
説



Compressing wave to mp3

## ③ Saving PC output sound as digital file

1. Start the software.
2. File setting can be changed by clicking Configure button. The setting does not need to be changed each time because the previous setting is stored.
3. Click Save button in PC ► Digital File menu.
4. Specify a folder and file name when Save As window appears.  
(Special characters such as ?./ can not be used in the name.)
5. If you click Save button, PC output sound is recorded as a file.
6. Click ■(Stop) button to stop recording.
7. File is stored first as native wave format. If mp3 format is selected, wave file is compressed to mp3 and wave file is removed afterward.
8. If wave format is selected, the process ends without mp3 compression process.  
(If the intended job is to make an audio CD, it is recommended that file be stored as wave format.)



### Problem/Solution

In case there is no sound in created files, the sound card setting needs to be changed as shown in the picture on the left.

1. Check the sound card setting in the control panel  
Windows98 : Start > Control Panel > Multimedia  
WindowsXP : Start > Control Panel > Sound and Audio devices > Audio tab
2. Sound playback and recording device must use the same device. If Sound recording appears gray, the sound card driver needs to be reinstalled.
3. Click Volume in Sound recording and check if Stereo Mix is selected. The Stereo Mix volume level should be increased if it is set too low.



### Problem/Solution

The name Stereo Mix may be called differently in some sound cards. The item which corresponds to Stereo Mix must be selected.

In order to find the correct one, refer to the manual or select the item one by one to find which one successfully saves.



### Note

The items on the Recording control window are sound sources which the PC can recognize. Only one sound source can be selected. When converting the tape, the PC accepts sound from Line In source. When saving PC output sound, the PC accepts sound from Stereo Mix source.

## ④ Optimizing Sound Quality

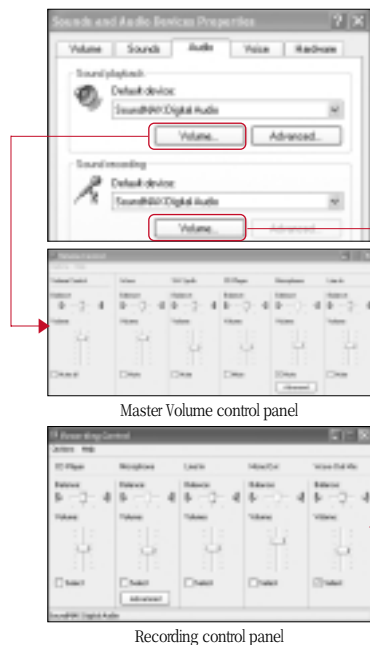
### 1. Understanding Sound Card Setting

There are two sound control panels - one is master volume control panel which controls output sound and the other is recording control panel which controls input sound.

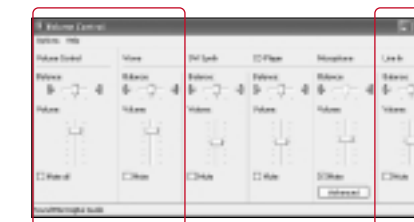
- Windows98 : Start > Control Panel > Multimedia
- WindowsXP : Start > Control Panel > Sounds and Audio devices > Audio tab

► Click Volume button in Sound playback to open master volume control panel and click Volume button in Sound recording to open recording control panel.

▷ If you don't see the items you want, they may be added. In each panel, go to Option - Properties and select items you want to add. Click OK to complete the process.

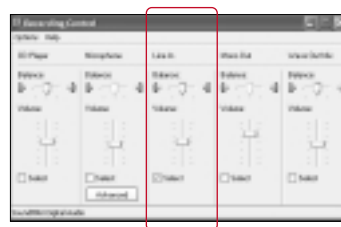


### 2. Controlling tape playing sound



1. Line In level in master volume control panel controls the tape playing sound level.
2. If Line In volume level is the minimum or muted, the tape sound will not be heard.
3. When converting the tape to digital files, if Line In in master volume panel is muted, you will not hear the tape playing sound but converting will be done.
4. If volume level in volume control or wave is the minimum or muted, you will not hear any PC output sound.
5. Unnecessary items, such as phone or AUX, should be muted to improve sound quality. (Volume control, wave, Line In must NOT be muted.)

### 3. Controlling volume level when converting the tape



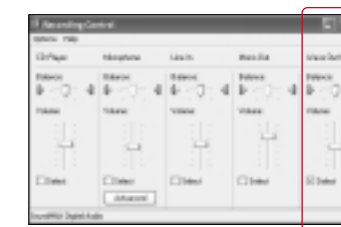
1. Line In volume level in Recording control panel controls the input volume level
2. If Line In is not selected or volume level is the minimum, created digital files will have no sound.
3. If volume level is too high, sound can be distorted. So adjust volume level bar up and down to optimize sound quality.
4. In most sound cards, 50~70% value should be good but this depends on the sound card you have.
5. After the sound card setting is optimized, if sound quality of created file is significantly degraded from the original tape, most likely Line In of the sound card has gone bad. You should test with a different sound card.



#### Note

The name Stereo Mix is called differently depending on the sound card you have. Some of other names are What you hear, Wave Out, etc...

### 4. Controlling volume level when saving PC output sound



1. Stereo Mix volume level in recording control panel controls the input volume level.
2. If Stereo Mix is not selected or volume level is the minimum, created digital files will have no sound.
3. If volume level is too high, sound can be distorted. So adjust volume level bar up and down to optimize sound quality.
4. In most sound cards, 50~70% value should be good but this depends on the sound card you have.



## 5. Getting rid of sound effect

1. Go to Start > Control Panel > Sounds and Audio devices.
2. In the Sounds and Audio devices window, select Sounds tab.
3. Select“ none ”in the sound scheme.



### Caution

Converting analog sound to digital sound process requires a large hard drive space. Check your available hard drive space frequently.  
In My Documents or desktop folder, there may be a limit set for saving. It is recommended that you save files in other folders.



Wave Pad

## 5 Editing digital files

1. It is very difficult to edit sounds in the tape but it is simple to edit converted files using a sound editing software.
2. Ther are many programs available, such as Gold Wave, Cool edit. Among them, the simplest but very powerful to use is Wave Pad by NCH.
3. Wave Pad can be downloaded from <http://www.nch.com.au/wavepad/index.html>
4. Wavepad features
  - ① Copy, cut, paste
  - ② noise reduction
  - ③ playback speed control
  - ④ Adding silence, Fade In/Out, reverse play

If you have any question or suggestion, send an email to us at (info@plusdeck.com). Also visit us at <http://www.plusdeck.com> for updated product information.

Thank you!

## Warranty Card

■ This product is manufactured under thorough quality control and test.

During the warranty period, you can get the product serviced by the distributor or manufacturer.

■ Warranty period: 1 year from date of purchase

■ Warranty guidelines

1. If a mechanical or other serious problem is found within 10 days from date of purchase, contact the distributor with the product registration and receipt for refund.
2. If a problem occurs which is not caused by user mishandling within the warranty period, you can get the product serviced for free.
3. If a problem occurs after the warranty period is over, a service fee will be charged.
4. A service fee will be charged within the warranty period in the following cases.
  - malfunction, damage, or lost components by user mishandling or error
  - problem or damage caused by natural disasters
  - problem or damage caused from repair by unauthorized personnel
  - problem or damage caused by the PC
  - problem or damage caused by defective tapes

5. We are not responsible for any damage done on the tape or computer caused by user mishandling or error.

|                     |                    |                 |                              |
|---------------------|--------------------|-----------------|------------------------------|
| Product             | <b>plusdeck 2c</b> | Serial number   |                              |
| Purchased date      | <b>20</b> . . .    | Warranty period | Within 1 year from purchased |
| Purchased place     |                    |                 |                              |
| Customers' address  |                    |                 |                              |
| Name                |                    | Phone number    |                              |
| Trouble particulars |                    |                 |                              |